Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Previously presented) An application specific integrated circuit (ASIC) comprising:

 a standard cell, the standard cell including a plurality of logic functions;

 at least one bus coupled to at least a portion of the logic functions;

 a plurality of internal signals from the plurality of logic functions; and

 a field programmable (FP) function coupled to the at least one bus and at least a

 portion of the plurality of internal signals, wherein the FP function provides access to internal signals for observation and control without requiring input/output (I/O) pins to access the internal signals.
- 2. (Original) The ASIC of claim 1 wherein the FP function comprises a signal connector function.
- 3. (Original) The ASIC of claim 2 wherein the signal connector function comprises a first logic for providing an external I/O function and a second logic which is in communication with the first logic that selects the appropriate internal signals for external observation and control.
- 4. (Original) The ASIC of claim 1 wherein the FP function includes a testing function.

- 5. (Original) The ASIC of claim 4 wherein the testing function includes a selector function for selecting the signals of interest and a validation function coupled to the selector function for testing the signals of interest.
- 6. (Original) The ASIC of claim 5 wherein the testing function includes a test program for validating at least one of the plurality of logic functions.
- 7. (Original) The ASIC of claim 1 wherein the FP function includes an error recovery function.
- 8. (Original) The ASIC of claim 7 wherein the error recovery function comprises determining if an error is observed, determining the error case when an error is observed and corrected.
- 9. (Original) The ASIC of claim 8 wherein the error recovery function further includes writing an error code to an external system based upon the error case.
- 10. (Original) The ASIC of claim 8 wherein the error recovery function utilizes a watchdog function.

11. (Original) The ASIC of claim 9 wherein the watchdog function comprises determining after a predetermined time-period or number of actions if a portion of the ASIC is operating properly, and invoking an error-handling process if the portion is not operating properly.

- 12. (Original) The ASIC of claim 1 wherein the FP function comprises a field programmable gate array function.
- 13. (Previously presented) A method for providing a testing function in an application specific integrated circuit (ASIC), the ASIC including a standard cell, the standard cell including a plurality of logic functions, the method comprising:
- (a) providing a field programmable (FP) function in the ASIC for monitoring internal signals from the plurality of logic functions for observation and control without requiring input/output (I/O) pins to access the internal signals; and
 - (b) providing a test program in the FP function.
- 14. (Original) The method of claim 13 wherein the test program validates at least one of the plurality of logic functions.
- 15. (Previously presented) A method for allowing an application specific integrated circuit (ASIC) to operate after an error has occurred therein, the ASIC including a standard cell, the standard cell including a plurality of logic functions, the method comprising:

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(a) providing a field programmable (FP) function in the ASIC for monitoring internal signals from the plurality of logic functions for observation and control without requiring input/output (I/O) pins to access the internal signals; and

- (b) providing an error recovery function within the FP function.
- 16. (Previously presented) The method of claim 15 wherein the error recovery function comprises determining if an error is observed, determining the error case when an error is observed and corrected.
- 17. (Previously presented) The method of claim 16 wherein the error recovery function further includes writing an error code to an external system based upon the error case.
- 18. (Previously presented) The method of claim 16 wherein the error recovery function utilizes a watchdog function.
- 19. (Previously presented) The method of claim 18 wherein the watchdog function comprises determining after a predetermined time-period or number of actions if a portion of the ASIC is operating properly, and invoking an error-handling process if the portion is not operating properly.

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